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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/738,420	12/17/2003		Hideto Nakamura	FP03-139US	8338
1218	7590	08/24/2005		EXAMINER	
CASELLA			HAMMOND, BRIGGITTE R		
274 MADIS NEW YORK		-		ART UNIT	PAPER NUMBER
NEW TORK	.,			2833	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/738,420	NAKAMURA, HIDETO	
Office Action Summary	Examiner	Art Unit	
	Briggitte R. Hammond	2833	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided in the second period for reply within the set or extended period for reply will, by a Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a re in. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	ı.
Status			
1) Responsive to communication(s) filed on	<u>5/26/05</u> .		
2a)⊠ This action is FINAL . 2b)□	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und	* * * * * * * * * * * * * * * * * * *	•	i
Disposition of Claims	•		
4) ⊠ Claim(s) <u>1-10</u> is/are pending in the applica 4a) Of the above claim(s) is/are with 5) □ Claim(s) <u>10</u> is/are allowed. 6) ⊠ Claim(s) <u>1 and 3-9</u> is/are rejected. 7) □ Claim(s) <u>2</u> is/are objected to. 8) □ Claim(s) are subject to restriction a	ndrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		,
10) The drawing(s) filed on is/are: a)	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	, ,	
Replacement drawing sheet(s) including the co	•		i) .
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docur 2. ☐ Certified copies of the priority docur 3. ☐ Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in Ap priority documents have been i ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage	÷
Attachment(s)	_		
1) Notice of References Cited (PTO-892)		ımmary (PTO-413) /Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 		formal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto in view of Tsuji 5,910,028. Matsumoto discloses a connector comprising a housing (A) having a front end (right side of A) connectable with a mating housing (B), a rear end (left side of A) and at least one cavity (1) between the ends, the rear end being formed to define a pushable portion 5, a slider (C) with an escape groove (12a) and a biasing member 15 provided between the slider (C) and the housing (A). Matsumoto does not disclose the escape groove being rearwardly open. However, Tsuji discloses a connector comprising a housing, connectable with a mating housing and a slider 30 having an escape groove being rearwardly open (see fig. 7). It would have been obvious to one of ordinary skill to modify the connector of Matsumoto by providing a rearwardly open escape groove to facilitate smooth insertion as taught by Tsuji.

Regarding claim 3, the slider (C) is movable forward and backward substantially along connecting and separating directions of the housing and the mating housing.

Regarding claim 4, the slider (C) has a substantially tubular shape for at least partly surrounding the housing (A).

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Regarding claim 5, the slider (C) has a substantially rectangular tubular shape and is configured to project back from a receptacle (7) of the mating housing (B) whenthe two housings are connected properly.

Regarding claim 6, wherein the slider (C) comprises at least one pullable portion (11a) pullable at the time of separating the housing from the mating housing.

Regarding claim 7, two pullable portions (11a) are provided substantially symmetrically on sides of the slider near where the escape groove is formed.

Regarding claim 8, Matsumoto discloses a connector comprising a housing (A) having opposite front and rear ends, the front ends being connectable with one another, at least one pushable portion 5 formed on the rear of the housing (left side of housing A), a slider (C) movable with respect to the housing and at leat partially surrounding the housing, the slider being formed with at least one escape groove (12a) for receiving the pushable portion (5) of the housing (A), and a biasing member (15) provided between the slider (C) and the housing (A) and being compressible to accumulate a biasing force for separating the housing (A) from the mating housing (B) as the slider (C) is moved. Matsumoto does not disclose the escape groove being rearwardly open. However, Tsuji discloses a connector comprising a housing, connectable with a mating housing and a slider 30 having an escape groove being rewardly open (see fig. 7). It would have been obvious to one of ordinary skill to modify the connector of Matsumoto by providing a rearwardly open escape groove to facilitate smooth insertion as taught by Tsuji.

Regarding claim 9, the mating housing (B) includes a receptacle (6,8) for receiving at least portions of the housing (A) and the slider (C).

Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 10 is allowed.

The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 2, the housing havings two pullable portions symmetrically disposed on the housing, in combination with the other limitations of the base claim.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Briggitte R. Hammond whose telephone number is 571-272-2006. The examiner can normally be reached on Mon.-Thurs. and Alternate Fridays from 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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August 20, 2005